

387 CAG CGG CAC ATA CGG GAC TCG GTG AGC GCG GCC TGG GAC ACG TAC GAC ACG GAC 432
Q R H I R D S V S A A W D T Y D T D

441 CGC GAC GGG CGT GTG GGT TGG GAG GAG CTG CGC AAC GCC ACC TAT GGC CAC TAC 486
R D G R V G W E E L R N A T Y G H Y

495 GCG CCC GGT GAA GAA TTT CAT GAC GTG GAG GAT GCA GAG ACC TAC AAA AAG ATG 540
A P G E E F H D V E D A E T Y K K M

549 CTG GCT CGG GAC GAG CGG CGT TTC CGG GTG GCC GAC CAG GAT GGG GAC TCG ATG 594
L A R D E R R F R V A D Q D G D S M

603 GCC ACT CGA GAG GAG CTG ACA GCC TTC CTG CAC CCC GAG GAG TTC CCT CAC ATG 648
A T R E E L T A F L H P E E F P H M

657 CGG GAC ATC GTG ATT GCT GAA ACC CTG GAG GAC CTG GAC AGA AAC AAA GAT GGC 702
R D I V I A E T L E D L D R N K D G

711 TAT GTC CAG GTG GAG GAG TAC ATC GCG GAT CTG TAC TCA GCC GAG CCT GGG GAG 756
Y V Q V E E Y I A D L Y S A E P G E

FIGURE 1B

FIGURE 1C

1143 1152 1161 1170 1179 1188
 ATG CAG TCC CAG GCA TCC TCC TGG GCT CTC AGG GAC CCC CTG GGT CGG

1197 1206 1215 1224 1233 1242
 CTT CTG TCC CTG TCA CAC CCC CAA CCC CAG GGA GGT GCT ATA GTC CCA GAG

1251 1260 1269 1278 1287 1296
 GAT AAG CAA TAC CTA TTT CTG ACT GAG TCT CCC AGC CCA GAC CCA GGG ACC CTT

1305 1314 1323 1332 1341 1350
 GGC CCC AAG CTC AGC TCT AAG AAC CGC CCC AAC CCC TCC AGC TCC AAA TCT GAG

1359 1368 1377 1386 1395 1404
 CCT CCA CCA CAT AGA CTG AAA CTC CCC TGG CCC CAG CCC TCT CCT GCC TGG CCT

1413 1422 1431 1440 1449 1458
 GGC CTG GGA CAC CTC CTC TCT GCC AGG AGG CAA TAA AAG CCA GCG CCG GGA AAA

AAA AA

FIGURE 1D

9 18 27 36 45 54
 CCC GCT TCC GGT TGG GCG GTG CTT GCG CGC GTG AGC TGA GCC GGT GGG TGA GCG

 63 72 81 90 99 108
 GCG GCC ACG GCA TCC TGT GCT GTG GGG GCT ACG AGG AAA GAT CTA ATT ATC ATG
 M

 117 126 135 144 153 162
 GAC CTG CGA CAG TTT CTT ATG TGC CTG TCC CTG TGC ACA GCC TTT GCC TTG AGC
 D L R Q F L M C L S L C L C T A F A L S

 171 180 189 198 207 216
 AAA CCC ACA GAA AAG AAG GAC CGT GTA CAT CAT GAG CCT CAG CTC AGT GAC AAG
 K P T E K K D R V H H E P Q L S D K

 225 234 243 252 261 270
 GTT CAC AAT GAT GCT CAG AGT TTT GAT TAT GAC CAT GAT GAT GCC TTC TTG GGT GCT
 V H N D A Q S F D Y D H D A F L G A

 279 288 297 306 315 324
 GAA GAA GCA AAG ACC TTT GAT CAG CTG ACA CCA GAA GAG AGC AAG GAA AGG CTT
 E E A K T F D Q L T P E E S K E R L

 333 342 351 360 369 378
 GGA AAG ATT GTA AGT AAA ATA GAT GGC GAC AAG GAC GGG TTT GTC ACT GTG GAT
 G K I V S K I D G D K D G F V T V D

FIGURE 2A

387	GAG CTC AAA GAC TGG ATT AAA TTT GCA CAA AAG CGC TGG ATT TAC GAG GAT GTA	405	414	423	432
	E L K D W I K F A Q K R W I Y E D V				
441	GAG CGA CAG TGG AAG GGG CAT GAC CTC AAT GAG GAC GGC CTC GTT TCC TGG GAG	450	468	477	486
	E R Q W K G H D L N E D G L V S W E				
495	GAG TAT AAA AAT GCC ACC TAC GGC TAC GTT TTA GAT GAT CCA GAT CCT GAT GAT	504	513	522	531
	E Y K N A T Y G Y V L D D P D D				
549	GGA TTT AAC TAT AAA CAG ATG ATG GTT AGA GAT GAG CGG AGG TTT AAA ATG GCA	558	567	576	585
	G F N Y K Q M M V R D E R R F K M A				
603	GAC AAG GAT GGA GAC CTC ATT GCC ACC AAG GAG GAG TTC ACA GCT TTC CTG CAC	612	621	630	639
	D K D G D L I A T K E E F T A F L H				
657	CCT GAG GAG TAT GAC TAC ATG AAA GAT ATA GTA CAG GAA ACA ATG GAA GAT	666	675	684	693
	P E E Y D Y M K D I V V Q E T M E D				
711	ATA GAT AAG AAT GCT GAT GGT TTC ATT GAT CTA GAA GAG TAT ATT GGT GAC ATG	720	729	738	747
	I D K N A D G G F I D L E E Y I G D M				

FIGURE 2B

[illegible]

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[illegible]

FIGURE 2D

1629	GCC	ATT	ACC	TGG	GCA	AGG	AAA	GAT	CCC	TTT	GCT	CTA	GGA	AAG	CTT	GGC	CCA	AAT	1674
1683	TGA	TTT	TCT	TCT	TTT	TCC	CCC	TGT	AGG	ACT	GAC	TGT	TGG	CTA	ATT	TTG	TCA	AGC	1728
1737	ACA	GCT	GTG	GTG	GGA	AGA	GTT	AGG	GCC	AGT	GTC	TTG	AAA	ATC	AAT	CAA	GTA	GTG	1782
1791	AAT	GTG	ATC	TCT	TTG	CAG	AGC	TAT	AGA	TAG	AAA	CAG	CTG	GAA	AAC	TAA	AGG	AAA	1836
1845	AAT	ACA	AAT	GTT	TTC	GGG	GCA	TAC	ATT	TTT	TTT	CTG	GGT	GTG	CAT	CTG	TTG	AAA	1890
1899	TGC	TCA	AGA	CTT	AAT	TAT	TTG	CCT	TTT	GAA	ATC	ACT	GTA	AAT	GCC	CCC	ATC	CGG	1944
1953	TTC	CTC	TTC	TTC	CCA	GGT	GTG	CCA	AGG	AAT	TAA	TCT	TGG	TTT	CAC	TAC	AAT	TAA	1998
2007	AAT	TCA	CTC	CTT	TCC	AAT	CAT	GTC	ATT	GAA	AGT	GCC	TTT	AAC	GAA	AGA	AAT	GGT	2052
2061	CAC	TGA	ATG	GGA	ATT	CTC	TTA	AGA	AAC	CCT	GAG	ATT	AAA	AAA	AGA	CTA	TTT	GGA	2106

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2115	2124	2133	2142	2151	2160
TAA CTT ATA GGA AAG CCT AGA ACC TCC CAG TAG AGT GGG GAT TTT TTT CTT CTT					
2169	2178	2187	2196	2205	2214
CCC TTT CTC TTT TGG ACA ATA GTT AAA TTA GCA GTA TTA GTT ATG AGT TTG GTT					
2223	2232	2241	2250	2259	2268
GCA GTG TTC TTA TCT TGT GGG CTG ATT TCC AAA AAC CAC ATG CTG CTG AAT TTA					
2277	2286	2295	2304	2313	2322
CCA GGG ATC CTC ATA CCT CAC AAT GCA AAC CAC TTA CTA CCA GGC CTT TTT CTG					
2331	2340	2349	2358	2367	2376
TGT CCA CTG GAG AGC TTG AGC TCA CAC TCA AAG ATC AGA GGA CCT ACA GAG AGG					
2385	2394	2403	2412	2421	2430
GCT CTT TGG TTT GAG GAC CAT GGC TTA CCT TTC CTG CCT TTG ACC CAT CAC ACC					
2439	2448	2457	2466	2475	2484
CCA TTT CCT CCT CTT TCC CTC TCC CCG CTG CCA AAA AAA AAA AAG GAA ACG					
2493	2502	2511	2520	2529	2538
TTT ATC ATG AAT CAA CAG GGT TTC AGT CCT TAT CAA AGA GAG ATG TGG AAA GAG					
2547	2556	2565	2574	2583	2592
CTA AAG AAA CCA CCC TTT GTT CCC AAC TCC ACT TTA CCC ATA TTT TAT GCA ACA					

FIGURE 2F

2601 2610 2619 2628 2637 2646
CAA ACA CTG TCC TTT TGG GTC CCT TTC TTA CAG ATG GGA CCT CTT GAG GAA GGA
2655
ATT ATC GTA TTC .

FIGURE 2G

1 M M W - - - - R P S V L L L L L L L R H 922578
1 M A R G G R G R R L G L A L G L L L A L GI 1262329
1 R - GI 780361

17 G A O G K P - S P D A G P H G Q G R V H 922578
21 V L A P R V L R A K P T V R K E R V V R GI 1262329
2 - GI 780361

36 Q A A P L S D A P H D D A H G N F Q Y D 922578
41 P D S E L G E R P P E D N Q S - F Q Y D GI 1262329
2 - GI 780361

56 H E A F L G R E V A K E F D Q L T P E E 922578
60 H E A F L G K E D S K T F D Q L T P D E GI 1262329
2 - - - - - - - R D V A K E F D Q L T P E E GI 780361

76 S Q A R L G R I V D R M D R A G D G D G 922578
80 S K E R L G K I V D R I D - - N D G D G GI 1262329
16 S Q A R L G R I V D R M D L A G D S D G GI 780361

96 W V S L A E L R A W I A H T Q Q R H I R 922578
98 F V T T E E L K T W I K R V Q K R Y I F GI 1262329
36 W V S L A A L R A W I A H T Q Q R H I R GI 780361

116 D S V S A A W D T Y D T D R D G R V G W 922578
118 D N V A K V W K D Y D R D K D D K I S W GI 1262329
56 D S V S A A W H T Y D T D R D G R V G W GI 780361

136 E E L R N A T Y G H Y - A P G E E F H D 922578
138 E E Y K Q A T Y G Y Y L G N P A E F H D GI 1262329
76 E E L R N A T Y G H Y - E P G E E F H D GI 780361

155 V E D A E T Y K K M L A R D E R R F R V 922578
158 S S D H H T F K K M L P R D E R R F K A GI 1262329
95 V E G P GI 780361

FIGURE 3A

175 A D Q D G D S M A T R E E L T A F L H P 922578
 178 A D L N G D L T A T R E E F T A F L H P GI 1262329

195 E E F P H M R D I V I A E T L E D L D R 922578
 198 E E F E H M K E I V V L E T L E D I D K GI 1262329

215 N K D G Y V Q V E E Y I A D L Y S A E P 922578
 218 N G D G F V D Q D E Y I A D M F S H E E GI 1262329

235 G E E E P A W V Q T E R Q Q F R D F R D 922578
 238 N G P E P D W V L S E R E Q F N E F R D GI 1262329

255 L N K D G H L D G S E V G H W V L P P A 922578
 258 L N K D G K L D K D E I R H W I L P Q D GI 1262329

275 Q D Q P L V E A N H L L H E S D T D K D 922578
 278 Y D H A Q A E A R H L V Y E S D K N K D GI 1262329

295 G R L S K A E I L G N W N M F V G S Q A 922578
 298 E K L T K E E I L E N W N M F V G S Q A GI 1262329

315 T N Y G E D L T R H H D E L 922578
 318 T N Y G E D L T K N H D E L GI 1262329

FIGURE 3B

1 MDL - - - - R Q F L M C L S L C T A F 1601793
 1 M A R G G R G R R L G L A L G L L L A L GI 1262329
 17 A L S - - - - - K P T E K K D R V - H 1601793
 21 V L A P R V L R A K P T V R K E R V V R GI 1262329
 30 H E P Q L S D K V H N D A Q S F D Y D H 1601793
 41 P D S E L G E R P P E D N Q S F Q Y D H GI 1262329
 50 D A F L G A E E A K T F D Q L T P E E S 1601793
 61 E A F L G K E D S K T F D Q L T P D E S GI 1262329
 70 K E R L G K I V S K I D G D K D G F V T 1601793
 81 K E R L G K I V D R I D N D G D G F V T GI 1262329
 90 V D E L K D W I K F A Q K R W I Y E D V 1601793
 101 T E E L K T W I K R V Q K R Y I F D N V GI 1262329
 110 E R Q W K G H D L N E D G L V S W E E Y 1601793
 121 A K V W K D Y D R D K D D K I S W E E Y GI 1262329
 130 K N A T Y G Y V L D D P - - - - D P D D 1601793
 141 K Q A T Y G Y Y L G N P A E F H D S S D GI 1262329
 146 G F N Y K Q M M V R D E R R F K M A D K 1601793
 161 H H T F K K M L P R D E R R F K A A D L GI 1262329
 166 D G D L I A T K E E F T A F L H P E E Y 1601793
 181 N G D L T A T R E E F T A F L H P E E F GI 1262329
 186 D Y M K D I V V Q E T M E D I D K N A D 1601793
 201 E H M K E I V V L E T L E D I D K N G D GI 1262329
 206 G F I D L E E Y I G D M Y S H D G N T D 1601793
 221 G F V D Q D E Y I A D M F S H E E N G P GI 1262329

FIGURE 4A

226	E P E W V K T E R E Q F V E F R D K N R	1601793
241	E P D W V L S E R E Q F N E F R D L N K	GI 1262329
246	D G K M D K E E T K D W I L P S D Y D H	1601793
261	D G K L D K D E I R H W I L P Q D Y D H	GI 1262329
266	A E A E A R H L V Y E S D Q N K D G K L	1601793
281	A Q A E A R H L V Y E S D K N K D E K L	GI 1262329
286	T K E E I V D K Y D L F V G S Q A T D F	1601793
301	T K E E I L E N W N M F V G S Q A T N Y	GI 1262329
306	G E A L V R - H D E F	1601793
321	G E D L T K N H D E L	GI 1262329

FIGURE 4B

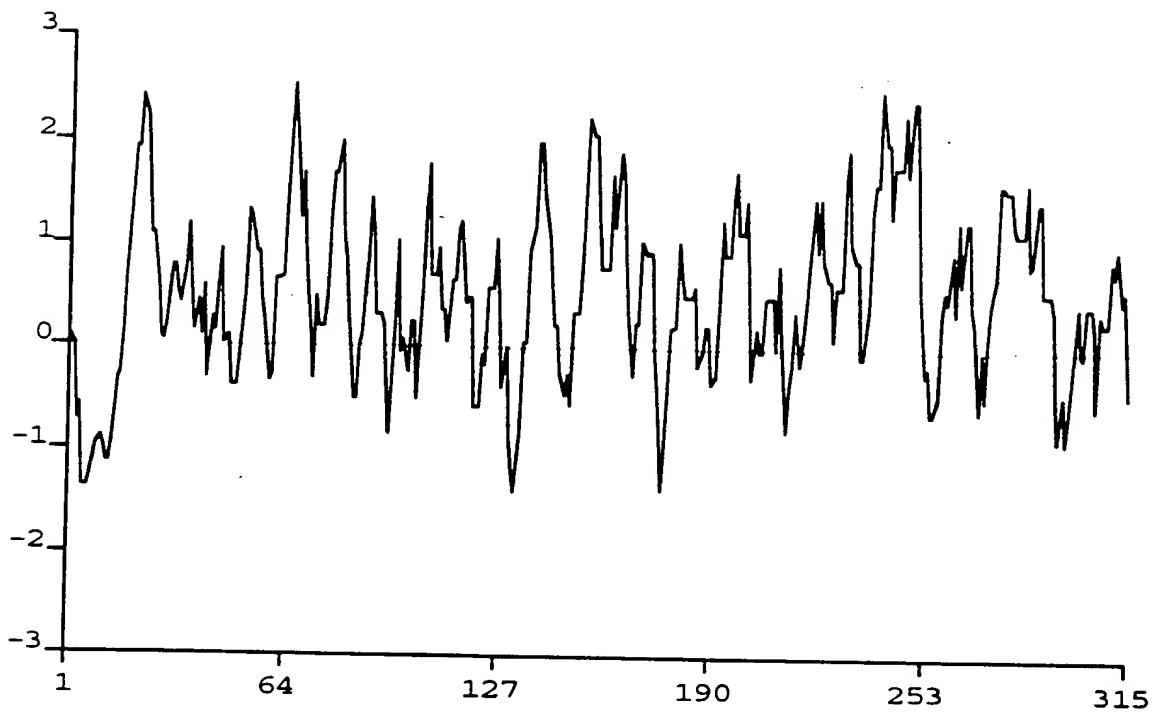


FIGURE 5B

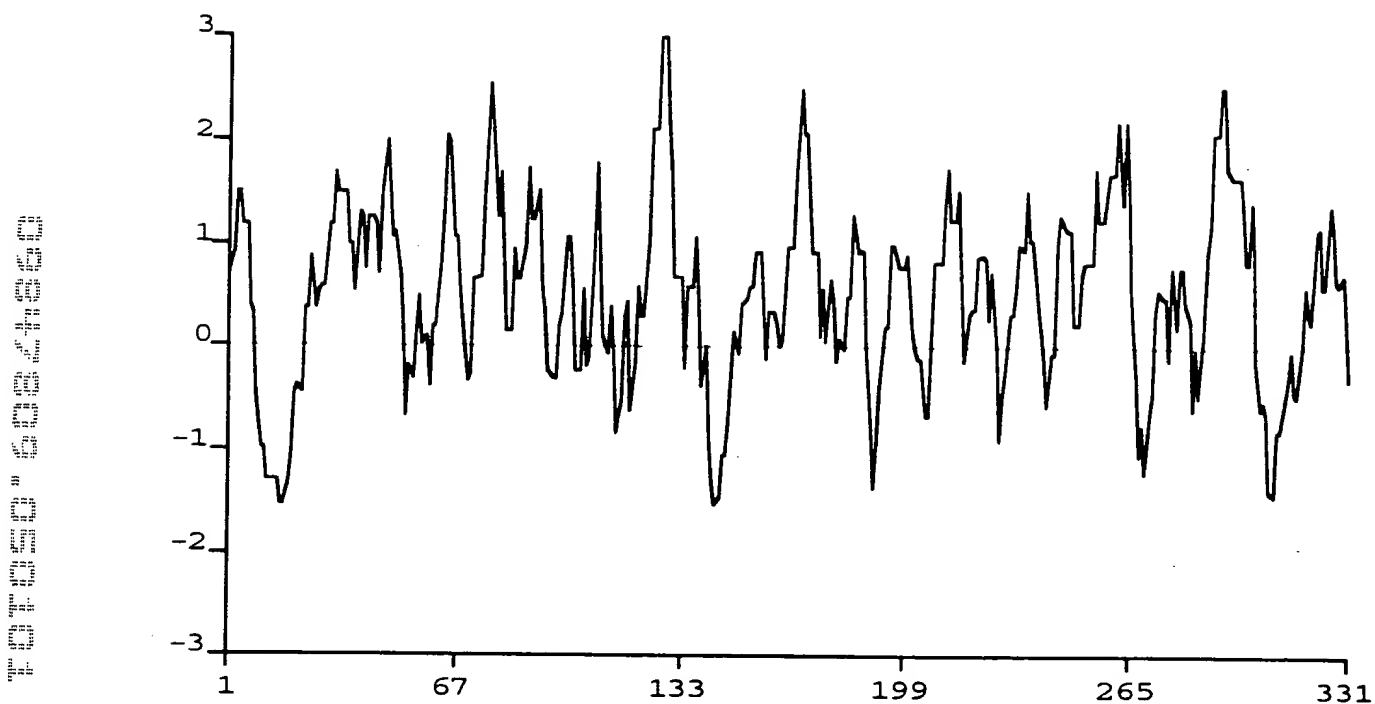


FIGURE 5C